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\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\localizer

TA: 0:28 PM: REF Voxel size: 0.6×0.6×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

Prio recon	On
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	5
Dist. factor	300 %
Position	L3.2 A62.4 H16.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	7
Dist. factor	500 %
Position	R9.0 A31.1 H13.2 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	1
Dist. factor	800 %
Position	L4.1 A30.1 H16.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.0 ms
TE	3.69 ms
Averages	1
Concatenations	13
Filter	Elliptical filter
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	8.0 ms
TE	3.69 ms
TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1

Contrast - Dynamic

Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	256
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	On

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	5
Dist. factor	300 %
Position	L3.2 A62.4 H16.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	7
Dist. factor	500 %
Position	R9.0 A31.1 H13.2 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	1
Dist. factor	800 %
Position	L4.1 A30.1 H16.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.0 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	13

Geometry - AutoAlign

Slice group	1
Position	L3.2 A62.4 H16.6 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R9.0 A31.1 H13.2 mm
Orientation	Transversal

Geometry - AutoAlign

Phase enc. dir.	A >> P
Slice group	3
Position	L4.1 A30.1 H16.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L3.2 A62.4 H16.6
L	3.2 mm
A	62.4 mm
H	16.6 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

Geometry - Tim CT

Tim CT mode	Off
Slices	1
Slice thickness	5.0 mm
Dist. factor	800 %
FoV read	320 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	REF
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	300.000 V

Physio - Signal1

1st Signal/Mode	None
TR	8.0 ms
Concatenations	13
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	320 mm
FoV phase	100.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	13

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Soft Tissue

Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Measurements	1

Inline - Composing

Inline Composing	Off
Distortion Corr.	Off

Inline - MapIt

Save original images	On
MapIt	None
Flip angle	20 deg
Measurements	1
Contrasts	1
TR	8.0 ms

Inline - MapIt

TE	3.69 ms

Sequence - Part 1

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Flow comp.	No
Multi-slice mode	Sequential
Bandwidth	320 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	Active
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\tfl_sag_320mm_2.5mm_500V_2groups

TA: 0:52 PM: REF Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
TE	2.27 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	25400.0 ms
TE	2.27 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.7 A63.9 H17.8
R	0.7 mm
A	63.9 mm
H	17.8 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.9 A63.9 H17.8 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	320 mm
F >> H	320 mm
R >> L	101 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	500.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved

Sequence - Part 1

Echo spacing	5 ms
Bandwidth	410 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	128

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\tfl_sag_320mm_2.5mm_300V_2groups

TA: 0:52 PM: REF Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
TE	2.27 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	25400.0 ms
TE	2.27 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.7 A63.9 H17.8
R	0.7 mm
A	63.9 mm
H	17.8 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.9 A63.9 H17.8 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	320 mm
F >> H	320 mm
R >> L	101 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	300.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved

Sequence - Part 1

Echo spacing	5 ms
Bandwidth	410 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	128

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\tfl_sag_320mm_2.5mm_300V_2groups

TA: 0:52 PM: REF Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
TE	2.27 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	25400.0 ms
TE	2.27 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.7 A63.9 H17.8
R	0.7 mm
A	63.9 mm
H	17.8 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.9 A63.9 H17.8 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	320 mm
F >> H	320 mm
R >> L	101 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	300.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved

Sequence - Part 1

Echo spacing	5 ms
Bandwidth	410 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	128

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\tfl_sag_320mm_2.5mm_REFV_2groups

TA: 0:52 PM: REF Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
TE	2.27 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	25400.0 ms
TE	2.27 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.7 A63.9 H17.8
R	0.7 mm
A	63.9 mm
H	17.8 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	On
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.9 A63.9 H17.8 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	320 mm
F >> H	320 mm
R >> L	101 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	300.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved

Sequence - Part 1

Echo spacing	5 ms
Bandwidth	410 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	128

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\tfl_sag_320mm_2.5mm_REFV_2groups

TA: 0:52 PM: REF Voxel size: 2.5×2.5×2.5 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
TE	2.27 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	25400.0 ms
TE	2.27 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	20
Dist. factor	100 %
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	20
Dist. factor	100 %
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	320 mm
FoV phase	100.0 %
Slice thickness	2.5 mm
TR	25400.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R0.7 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	R3.2 A63.9 H17.8 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R0.7 A63.9 H17.8
R	0.7 mm
A	63.9 mm
H	17.8 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R1.9 A63.9 H17.8 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	320 mm
F >> H	320 mm
R >> L	101 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	300.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved

Sequence - Part 1

Echo spacing	5 ms
Bandwidth	410 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	128

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\tfl_sag_2mm_384mm_REFV

TA: 1:07 PM: REF Voxel size: 2.0×2.0×3.0 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	21
Dist. factor	100 %
Position	L3.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	21
Dist. factor	100 %
Position	L0.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	384 mm
FoV phase	62.5 %
Slice thickness	3.0 mm
TR	33070.0 ms
TE	2.22 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	33070.0 ms
TE	2.22 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	384 mm
FoV phase	62.5 %
Slice thickness	3.0 mm
Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	21
Dist. factor	100 %
Position	L3.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	21
Dist. factor	100 %
Position	L0.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	62.5 %
Slice thickness	3.0 mm
TR	33070.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L3.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	L0.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L3.4 A55.3 F24.4
L	3.4 mm
A	55.3 mm
F	24.4 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L1.9 A55.3 F24.4 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	241 mm
F >> H	385 mm
R >> L	126 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

Sequence - Part 1

Introduction	Off

Sequence - Part 1

Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	4.9 ms
Bandwidth	410 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	120

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\tfl_sag_2mmISO_384mm_REFV
TA: 1:10 PM: REF Voxel size: 2.0×2.0×2.0 mmPAT: Off Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	28
Dist. factor	100 %
Position	L3.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	L1.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	384 mm
FoV phase	62.5 %
Slice thickness	2.0 mm
TR	34420.0 ms
TE	2.41 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(2D)
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	34420.0 ms
TE	2.41 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	384 mm
FoV phase	62.5 %
Slice thickness	2.0 mm
Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	28
Dist. factor	100 %
Position	L3.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	28
Dist. factor	100 %
Position	L1.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
FoV read	384 mm
FoV phase	62.5 %
Slice thickness	2.0 mm
TR	34420.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L3.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	L1.4 A55.3 F24.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L3.4 A55.3 F24.4
L	3.4 mm
A	55.3 mm
F	24.4 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L2.4 A55.3 F24.4 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	241 mm
F >> H	385 mm
R >> L	112 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

Sequence - Part 1

Introduction	Off

Sequence - Part 1

Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	5.1 ms
Bandwidth	410 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	120

Sequence - Assistant

Mode	Off

\\USER\Development\Dr. Cohen-Adad\acdc_spine_t7_004p\coilQA_sag_FH_384mm

TA: 0:46 PM: REF Voxel size: 1.0×1.0×5.0 mmRel. SNR: 1.00 : fl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	1
Dist. factor	20 %
Position	L3.8 A39.4 F21.3 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	---
Phase oversampling	0 %
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30.0 ms
TE	6.0 ms
Averages	4
Concatenations	1
Filter	None
Coil elements	1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H;1H

Contrast - Common

TR	30.0 ms
TE	6.0 ms
MTC	Off
Flip angle	12 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	4
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	384 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	384
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Resolution - Filter Image

Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	1
Dist. factor	20 %
Position	L3.8 A39.4 F21.3 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
FoV read	384 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	30.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L3.8 A39.4 F21.3 mm
Orientation	Sagittal
Phase enc. dir.	H >> F
AutoAlign	---
Initial Position	L3.8 A39.4 F21.3
L	3.8 mm
A	39.4 mm
F	21.3 mm
Initial Rotation	90.00 deg
Initial Orientation	Sagittal

Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	L3.8 A39.4 F21.3 mm
Orientation	Sagittal
Rotation	90.00 deg
F >> H	384 mm
A >> P	384 mm
R >> L	5 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm

System - Tx/Rx

Frequency 1H	297.196473 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	30.0 ms
Concatenations	1

Sequence - Part 1

Introduction	Off
Dimension	2D
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	200 Hz/Px

Sequence - Part 2

Gradient mode	Fast
RF spoiling	On

Sequence - Special

ICE program	IceProgramCoilUtils
Prep. scans duration	0 ms
Optimal SNR	On
GFactor	On
Rx coil diode switching	On

Sequence - Assistant

Mode	Off